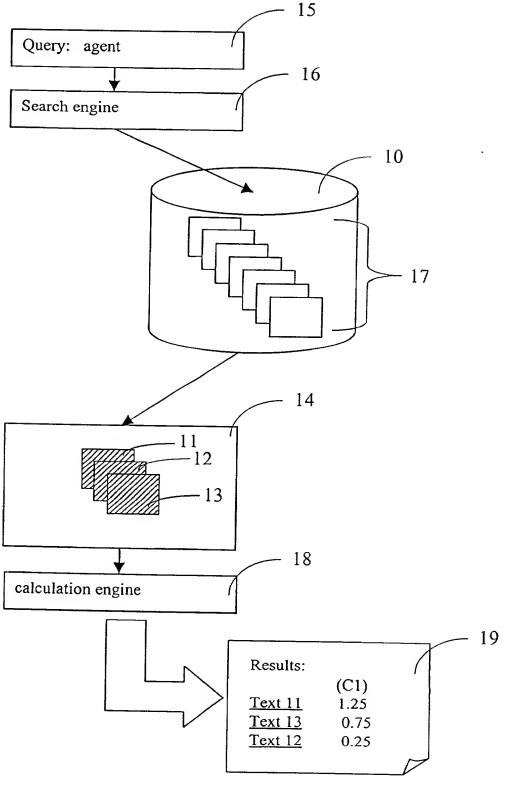

15
Query: agent
16
Search engine
10
17
14
11
12
13
18
calculation engine
19
Results:
(C1)
Text 11 1.25
Text 13 0.75
Text 12 0.25

FIG. 1

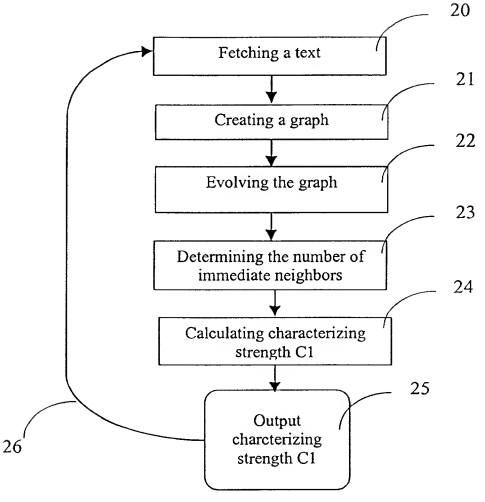

20
Fetching a text
21
Creating a graph
22
Evolving the graph
23
Determining the number of immediate neighbors
24
Calculating characterizing strength C1
25
Output charcterizing strength C1
26

FIG. 2

Fig. 3A

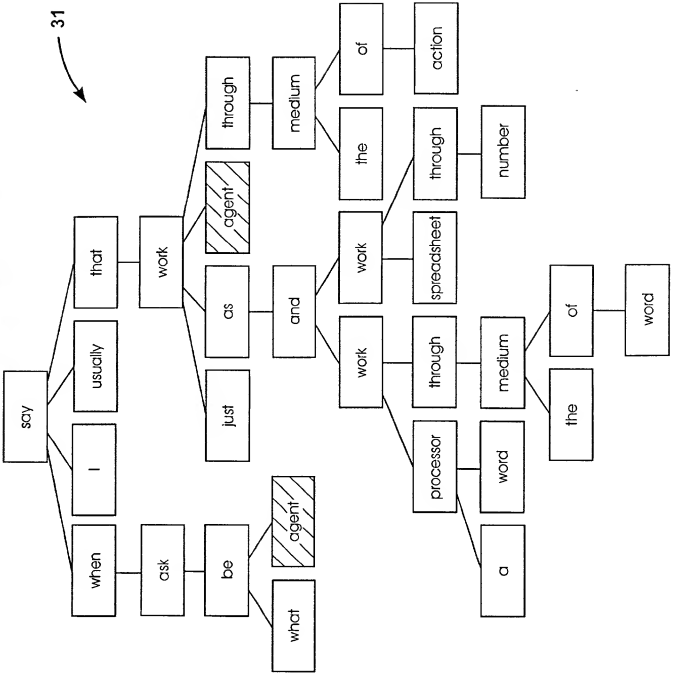

31
say
when
I
usually
that
ask
be
work
what
agent
just
as
agent
through
and
medium
work
work
the
of
processor
through
spreadsheet
through
action
a
word
medium
number
the
of
word

Fig. 3B

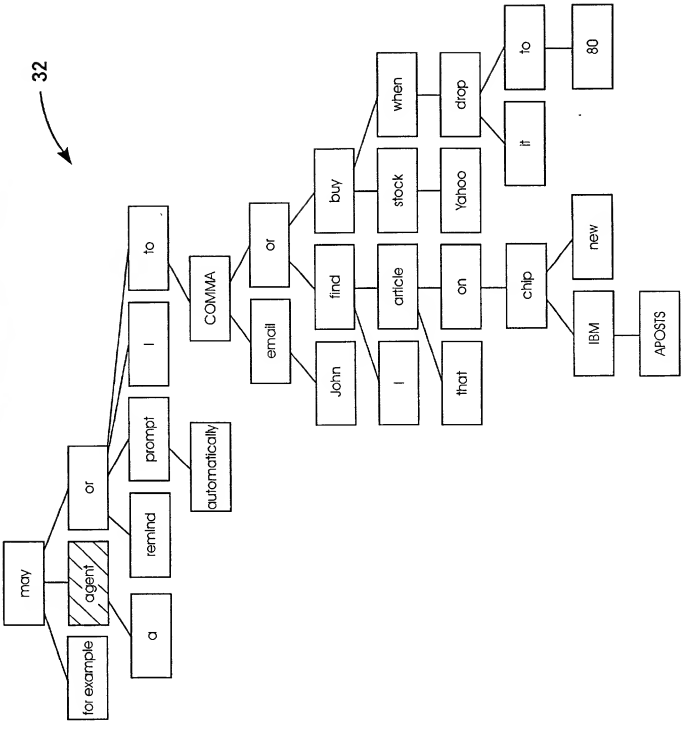

32
may
for example
agent
a
remind
or
prompt
I
to
automatically
COMMA
email
or
John
find
I
article
that
on
Yahoo
buy
stock
when
drop
chip
IBM
new
APOSTS
it
to
80

Fig.3C

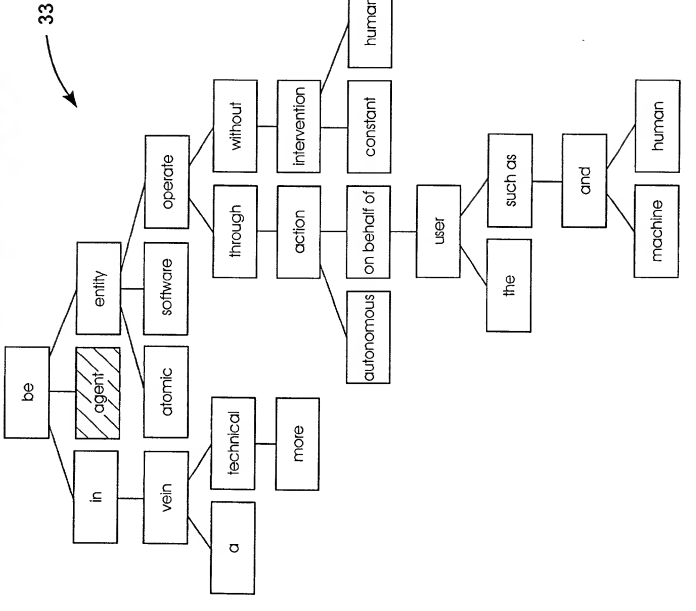

33
be
in
agent
entity
vein
atomic
software
a
technical
more
operate
through
without
action
intervention
autonomous
on behalf of
constant
user
human
the
such as
and
machine
human

Fig.3D

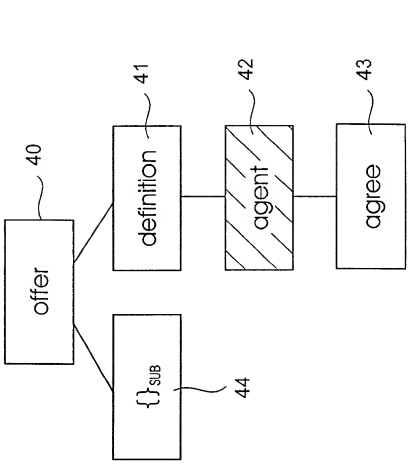


Fig.4A

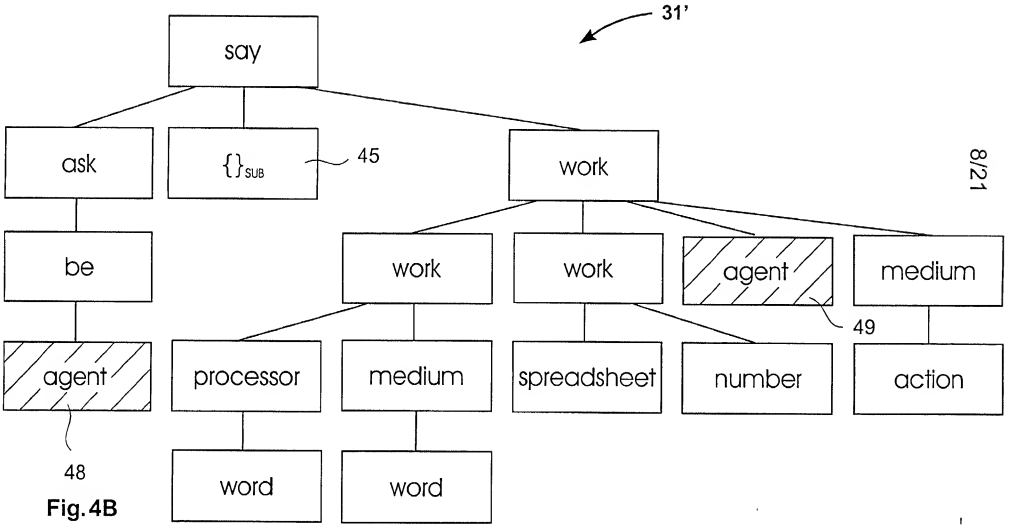

31'
say
ask
{}SUB
45
work
be
work
work
agent
medium
49
agent
processor
medium
spreadsheet
number
action
48
word
word

Fig. 4B

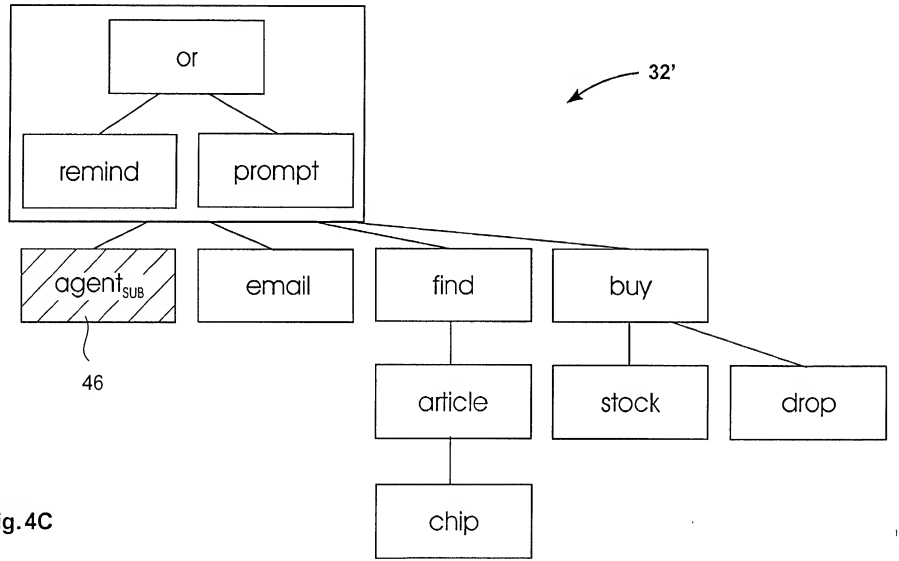
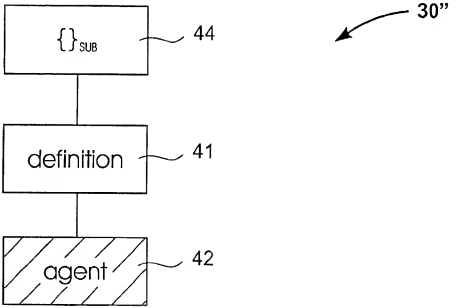

or
remind
prompt
32'
agent SUB
email
find
buy
46
article
stock
drop
chip

Fig. 4C

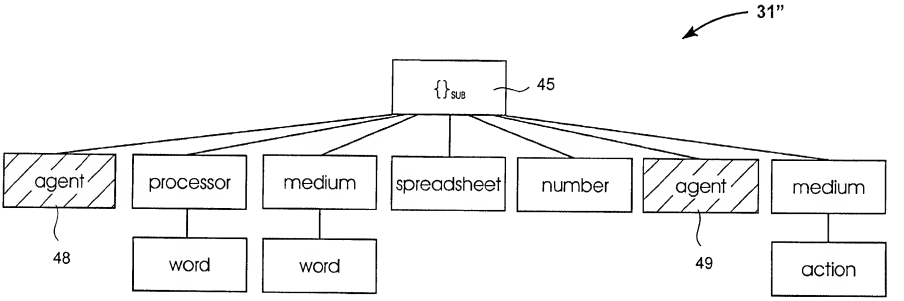
33'
be
vein
agent SUB
47
entity
software
operate
action
intervention
user
human
machine
human

Fig.4D



First neighbors: 1
First and second neighbors: 1

Fig. 5A



First neighbors: 0
First and second neighbors: 5

Fig. 5B

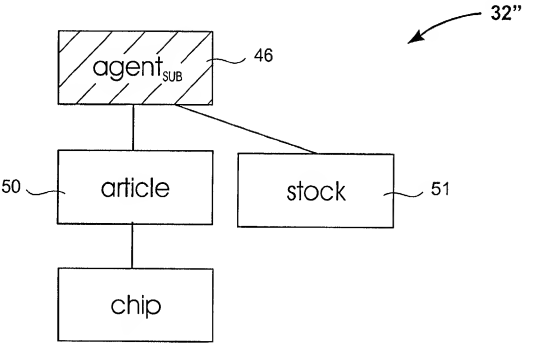


Fig. 5C

First neighbors: 2
First and second neighbors: 3

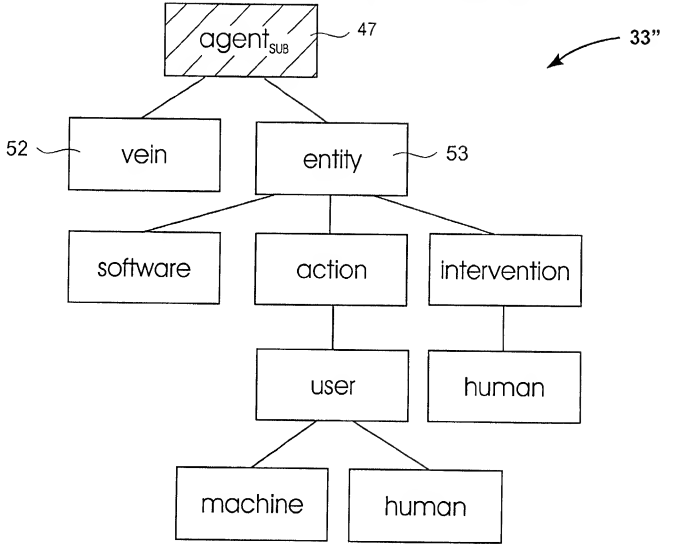


Fig. 5D

First neighbors: 2
First and second neighbors: 5

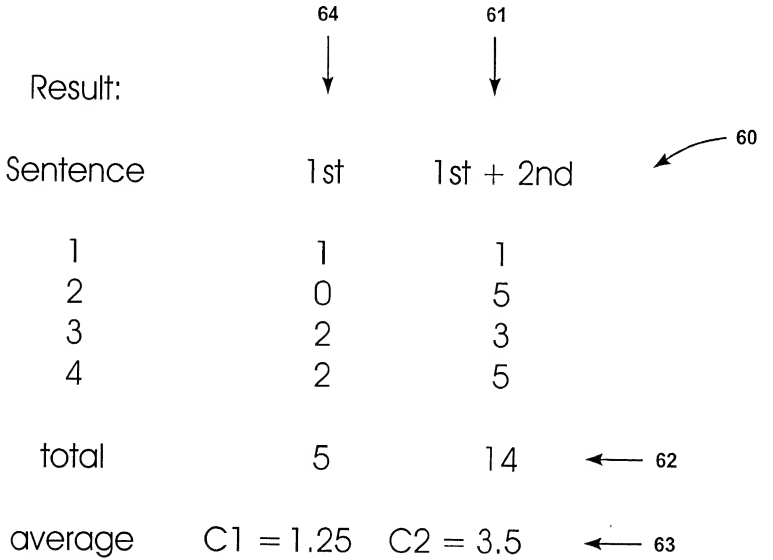


Fig. 6

10050049.011702

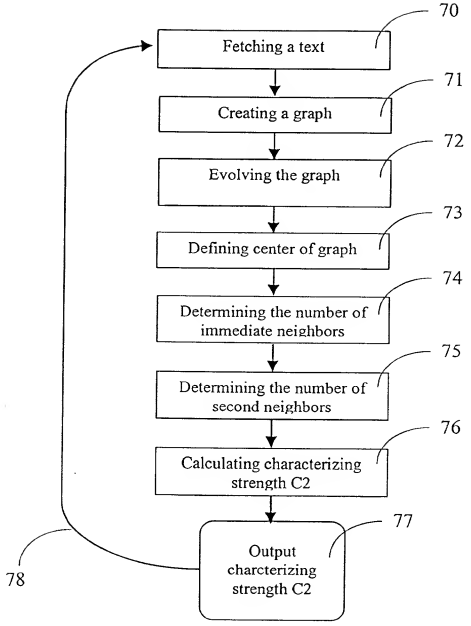

70
Fetching a text
71
Creating a graph
72
Evolving the graph
73
Defining center of graph
74
Determining the number of immediate neighbors
75
Determining the number of second neighbors
76
Calculating characterizing strength C2
77
Output charcterizing strength C2
78

FIG. 7

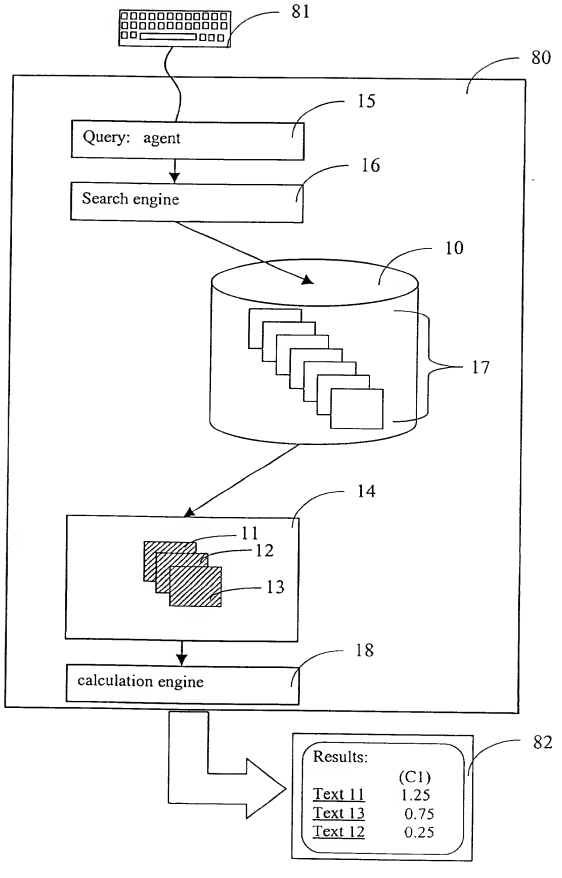

81
80
15
Query: agent
16
Search engine
10
17
14
11
12
13
18
calculation engine
82
Results:
(C1)
Text 11 1.25
Text 13 0.75
Text 12 0.25

FIG. 8

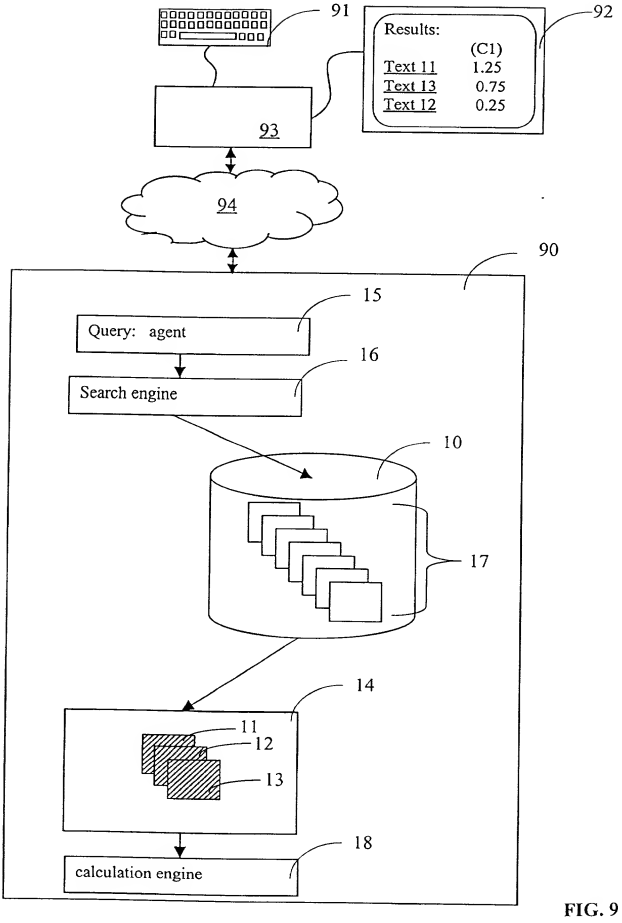

91
92
Results:
(C1)
Text 11 1.25
Text 13 0.75
Text 12 0.25
93
94
90
15
Query: agent
16
Search engine
10
17
14
11
12
13
18
calculation engine

FIG. 9

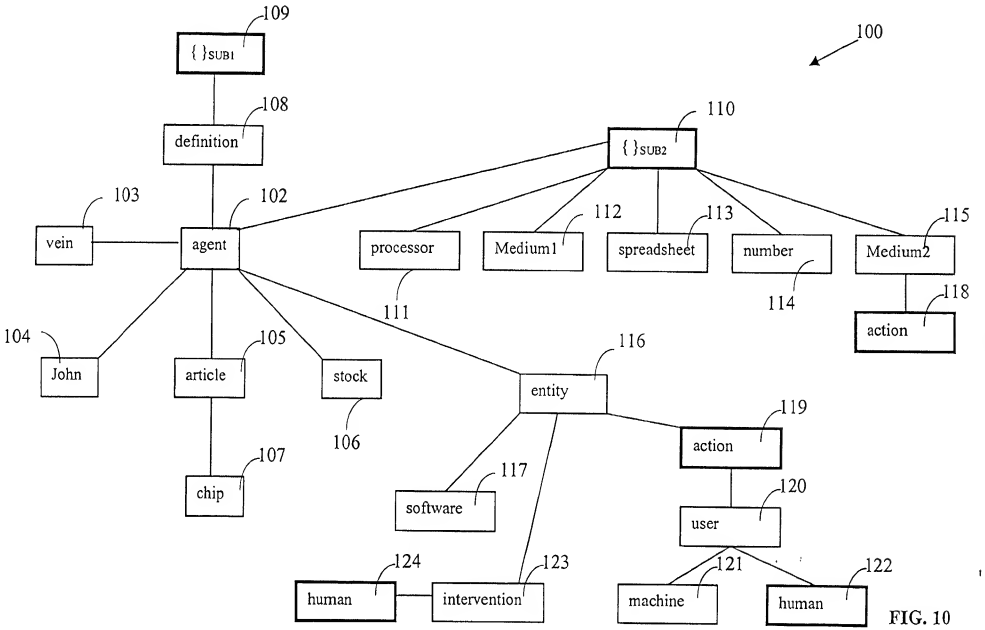

100
109
{ }SUB1
108
definition
110
{ }SUB2
103
vein
102
agent
processor
112
Medium1
113
spreadsheet
number
115
Medium2
111
114
118
action
104
John
105
article
stock
106
116
entity
119
action
107
chip
117
software
120
user
124
human
123
intervention
121
machine
122
human

FIG. 10

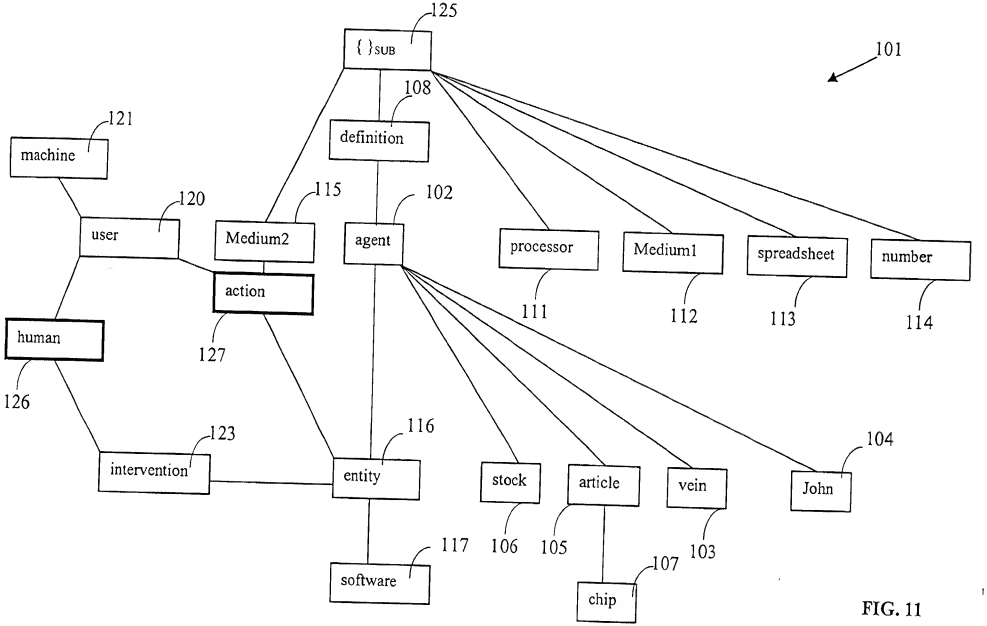

{ }SUB
125
101
definition
108
machine
121
user
120
Medium2
115
agent
102
processor
Medium1
spreadsheet
number
111
112
113
114
action
127
human
126
intervention
123
entity
116
stock
article
vein
John
104
106
105
103
software
117
chip
107

FIG. 11

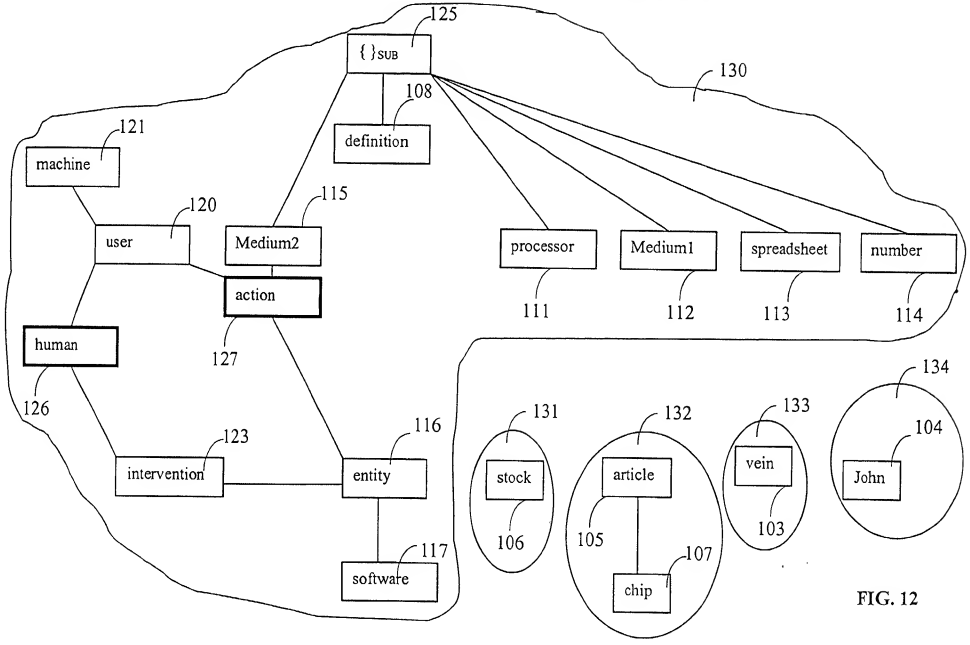

125
{ }SUB
130
108
definition
121
machine
120
user
115
Medium2
action
processor
Medium1
spreadsheet
number
111
112
113
114
127
human
126
134
104
John
131
132
133
stock
106
article
105
107
chip
vein
103
123
intervention
116
entity
117
software

FIG. 12